

AMENDMENT TO THE CLAIMS

IN THE CLAIMS:

Please **AMEND** claims 1, 5, 9, 12, 14, 18 and 22 as follows.

Please **ADD** claims 29-36 as follows.

The following is the status of the claims in this application:

1. (currently amended) A wheel speed sensor comprising:
a detection element having at least one lead, for detecting a wheel speed;
at least one terminal portion connected to the lead of the detection element;
a holder portion having a detection element fitting portion fitting the detection element therein and a terminal portion fitting portion fitting the terminal portion therein;
an electric wire welded on the terminal portion; and
a resin sealed portion sealing the holder portion in a state that the detection element and the terminal portion are held in the holder portion and the electric wire is connected with the terminal portion,
wherein the detection element fitting portion and the terminal portion fitting portion are disposed such that the lead of the detection element is brought into ~~abutment with or~~ proximity to a predetermined location of the terminal portion when the detection element and the terminal portion are fitted in the detection element fitting portion and the terminal portion fitting portion, respectively.

2. (original) The wheel speed sensor according to claim 1, wherein the lead of the detection element and the predetermined location of the terminal portion are connected to each other by welding.

3. (original) The wheel speed sensor according to claim 1, wherein a bent portion is formed in the predetermined location of the terminal portion.

4. (original) The wheel speed sensor according to claim 1, wherein the detection element is disposed on an end portion of the holder portion.

5. (currently amended) The wheel speed sensor according to claim 1, wherein the holder portion further comprises an accommodating groove accommodating the lead of the detection element, the terminal portion fitting portion being formed below ~~in~~ the accommodating groove.

6. (original) The wheel speed sensor according to claim 1, wherein the terminal portion fitting portion comprises a plurality of terminal portion fitting portions, and
wherein the holder portion includes a shielding plate formed between the adjacent terminal portion fitting portions.

7. (original) The wheel speed sensor according to claim 1, wherein the terminal portion is made of a metal,
wherein the terminal portion includes a holding portion formed in the vicinity to a location of the terminal to which the electric wire is welded, for holding the electric wire in a bundled state, and
wherein the electric wire is welded on the terminal portion in a state that the terminal portion is fitted into the holder portion.

8. (original) The wheel speed sensor according to claim 7, wherein the holding portion is a notch holding the electric wire therein.

9. (currently amended) The wheel speed sensor according to claim 7, wherein the terminal portion is formed into a substantially flat plate with at least one bend portion, and

wherein the terminal portion comprises a weld portion to which electric wire is welded and a holding piece which is bent from the weld portion at a position where a distal end of the electric wire is located when the electric wire is welded to the weld portion, and wherein the holding portion is formed in the holding piece.

10. (original) A wheel speed sensor comprising:
a detection element for detecting a wheel speed;
at least one terminal portion connected to the detection element;
a holder portion holding the detection element and the terminal portion;
an electric wire welded on the terminal portion;
a resin sealed portion sealing the holder portion in a state that the detection element and the terminal portion are held in the holder portion and the electric wire is connected with the terminal portion; and
a rod-like projection projectedly formed on the holder portion,
wherein when the holder portion is sealed with the resin, the rod-like projection has one end positioned outside a cavity in a mold and the outer end supporting the holder portion in a floating fashion within the cavity, and
wherein after the holder portion is sealed with the resin, a portion of the one end of the rod-like projection which projects outwardly of the resin sealed portion is removed.

11. (original) The wheel speed sensor according to claim 10, wherein the rod-like projection has a polygonal cross section.

12. (currently amended) The wheel speed sensor according to claim 11, wherein the ~~single~~ rod-like projection is a rod provided on the holder portion.

13. (original) The wheel speed sensor according to claim 10, wherein the detection element is disposed on an end portion of the holder portion.

14. (currently amended) The wheel speed sensor according to claim 10, wherein a flange portion is formed in the ~~other~~ outer end side of the rod-like projection.

15. (original) The wheel speed sensor according to claim 10, wherein a front surface of the resin sealed portion around the rod-like projection is formed in a concave surface.

16. (original) The wheel speed sensor according to claim 10, wherein the terminal portion is made of a metal,

wherein the terminal portion includes a holding portion formed in the vicinity to a location of the terminal to which the electric wire is welded, for holding the electric wire in a bundled state, and

wherein the electric wire is welded on the terminal portion in a state that the terminal portion is fitted into the holder portion.

17. (original) The wheel speed sensor according to claim 16, wherein the holding portion is a notch holding the electric wire therein.

18. (currently amended) The wheel speed sensor according to claim 16, wherein the terminal portion is formed into a substantially flat plate with at least one bend portion, and

wherein the terminal portion comprises a weld portion to which electric wire is welded and a holding piece which is bent from the weld portion at a position where a distal end of the electric wire is located when the electric wire is welded to the weld portion, and

wherein the holding portion is formed in the holding piece.

19. (original) A wheel speed sensor comprising:

a detection element for detecting a wheel speed;

at least one terminal portion connected to the detection element;

a holder portion holding the detection element and the terminal portion;
an electric wire welded on the terminal portion;
a resin sealed portion sealing the holder portion in a state that the detection element and the terminal portion are held in the holder portion and the electric wire is connected with the terminal portion; and
a rod-like projection projectedly formed on the holder portion, the rod-like portion being adapted to support the holder portion within a cavity in a floating fashion from the outside when the holder portion is sealed with the resin, the rod-like projection being positioned without projecting from a front surface of the resin sealed portion.

20. (original) The wheel speed sensor according to claim 19, wherein the terminal portion is made of a metal,

wherein the terminal portion includes a holding portion formed in the vicinity to a location of the terminal to which the electric wire is welded, for holding the electric wire in a bundled state, and

wherein the electric wire is welded on the terminal portion in a state that the terminal portion is fitted into the holder portion.

21. (original) The wheel speed sensor according to claim 20, wherein the holding portion is a notch holding the electric wire therein.

22. (currently amended) The wheel speed sensor according to claim 20, wherein the terminal portion is formed into a substantially flat plate with at least one bend portion, and

wherein the terminal portion comprises a weld portion to which electric wire is welded and a holding piece which is bent from the weld portion at a position where a distal end of the electric wire is located when the electric wire is welded to the weld portion, and

wherein the holding portion is formed in the holding piece.

23-28 (cancelled).

29. (New) The wheel sensor according to claim 1, wherein the detection element fitting portion is a partially cutaway cylinder such that a main portion of the detection element fits in the interior therein with no gap being formed between the interior and the main portion.

30. (New) The wheel sensor according to claim 29, wherein the terminal portion fitting portion is an outward extension extending from the partially cutaway cylinder.

31. (New) The wheel sensor according to claim 30, wherein the outward extension includes an accommodating groove for accommodating the lead of the detection element and a fitting portion located below the groove for accommodating the terminal portion.

32. (New) The wheel sensor according to claim 3, wherein the lead makes contact with the bent portion of the terminal portion at the predetermined location.

33. (New) The wheel sensor according to claim 1, wherein the terminal portion includes a notch having an opening end having a larger diameter portion and a weld portion end having a smaller diameter portion.

34. (New) The wheel sensor according to claim 8, wherein the notch is formed such that the diameter is reduced in a gradual or stepped fashion from a larger diameter portion at an open end toward a smaller diameter portion.

35. (New) The wheel sensor according to claim 10, wherein the holder portion includes a detection element fitting portion which is a partially cutaway cylindrical configuration such that a main portion of the detection element fits in the interior therein with no gap being formed between the interior and the main portion.

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36. (New) The wheel sensor according to claim 35, wherein the holder portion further includes a terminal portion fitting portion which is an outward extension extending from the partially cutaway cylindrical configuration.